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Reducing Refusal Rates in the Case of
Threatening Questions: The 'Door-in-the-Face'
Technique.

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Reducing Refusal Rates in the Case of Threatening Questions: the 'Door-in-the-Face' Technique.

Abstract

In this article we examine under which conditions personally threatening questions produce sufficient response rates. The income question serves as an example to demonstrate that question format may increase the threatening impact of the question topic. Based on the compliance gaining mechanisms operating in the 'door-in-the-face' technique an income question sequence was designed. Tested in two nationwide German surveys this question sequence achieved extremely low refusal rates.

Introduction

Nearly every handbook concerned with social and behavioral research methods includes some remarks on the treatment of 'threatening' questions in surveys. "Threatening questions are, almost by definition", as Bradburn and Sudman (1979, p. 164) noted, "questions that are more susceptible than nonthreatening ones to response effects". Such questions are concerned with a variety of topics. In Germany, especially, questions about income and party preference seem to have almost the same threat potential as questions about delinquency, sex, and drug use. They produce average refusal rates of between 15 to 30 percent.

In regard to income questions, survey researchers have made numerous efforts to diminish the probability of refusals by using different techniques or by varying the question wordings and presentations. For example, 'Planung und Analyse' (1983), a German journal for Marketing Research, reported one rather dubious method for gathering income data, as performed by several German media analysts. In this study, household net income was asked in a closed question version with eleven categories ranging from low (up to DM 500/month) to high (DM 5000 and more/month) income. For those interviewees (33 percent of the total sample) who refused to divulge this information, interviewers were instructed to estimate respondents' household income. In that way the investigators replaced original refusals with rough interviewer estimates.

Survey researchers who prefer to rely on their own experience and intuition rather than on the judgement of their interviewers try continuously to

create less threatening income question forms. Before one invents yet another version, one should first evaluate whether the currently existing forms result in different refusal rates; secondly, one should investigate whether specific question forms tend to be perceived as more or less personally threatening. For example, Locander and Burton (1976) who tested (experimentally) the effect of question form on gathering income data by telephone, reported that respondents are sensitive to question form when answering income questions. Their results suggest that even nuances in question form may either reduce or increase the threatening impact of the question topic. Finally, the problems of respondent self-perception in personally threatening situations should be taken into account as well as behavioral induction techniques that might increase a person's willingness to respond to a certain request.

The influence of question form on the response process

We first of all set out to determine whether or not currently used question forms (closed/open-ended) produce different refusal rates. Recent literature dealing with questionnaire construction recommends that survey researchers give preference to open-ended income questions. Krupp (1979) mentions two reasons for this: first, the information derived from open-ended questions seems to be much more precise than that from category lists (see also Sudman and Bradburn 1982, p. 115); second, the range of response categories themselves might bias the process of reporting as well as limit the range of appropriate statistical analysis tools (Schwarz et al. 1984). Systematic examination of several

nationwide surveys conducted in Germany (ALLBUS, ZUMABUS) however, indicates that open-ended questions tend to have higher levels of refusals than closed versions. If, beyond that, the open-ended question version presents a higher threat potential than the closed version, respondents' negative feelings might be interlaced with the previously described qualities: The more precisely respondents have to recall information the more difficult the task facing them, and the more uncomfortable they feel. The absence of any criterion (e. g. category lists) to guide the information retrieval makes the task harder, and thus may well increase discomfort.

In a second step we tried to determine whether or not question form (closed/open-ended) evokes varying degrees of threat. We therefore compiled 27 questions of varying format about different threatening topics, among them one open-ended and one closed income question, and asked several experts in questionnaire design to rate each question as to how threatening they thought most people would feel the particular question to be. Whereas the closed version of the income question reached a mean value of 4.3 on a 10-point scale ranging from non-threatening (1) to very threatening (10), the open-ended version reached a mean value of 5.8 ($t(22)=2.7$, $p<.03$).

It is tempting to conclude from these findings that the closed income question has the advantage over the open-ended version because the closed form is not only regarded as less threatening, but also shows a tendency toward lower refusal rates. Unfortunately, the 'relatively higher' response rates produced by asking the income question in

closed form are by no means sufficient. Too many interviewees (on average between 15 and 30 percent of each sample) short-circuit the response process by refusing to answer, even when the income question is a closed one. A pre-established set of response categories provided by closed income questions facilitates the respondents' task of retrieving the relevant facts. In addition, the easiness of the required task may distract - to a certain extent- respondents' attention from the threatening nature of the question topic. Still, these arguments do fail to explain why a sizeable number of respondents still refuse to answer these questions.

In the next section, we will discuss the underlying processes which may result in the refusal to answer a threatening question, as well as compliance gaining tactics that may increase the respondents' willingness to divulge information about such topics.

Applying persuasion techniques to reduce refusal rates

Following Bradburn and Sudman (1979), we suggest that the decision not to respond to threatening topics is influenced either by the aspects of the situation (e. g. the respondents actually do not remember their income) or by negative feelings about divulging personal information. We will concentrate on those interviewees who possess the information but refuse to talk about it. Their reaction seems determined primarily by personal dispositions or beliefs in social norms. For example, some respondents may consider the question topic to be inappropriate

for a communication setting like the interview. To them, the income question may violate certain communication rules like status congruence between themselves and the interviewer or formal personal interaction standards. Other interviewees may refuse to cooperate, because they feel their responses deviate from social norms or social desirability. As such underlying considerations may result in the refusal to answer a threatening question, it is of paramount importance to determine under which conditions a reversal of the initial decision could be attained. While cognitive or attitudinal change is proposed as necessary in the persuasive approach to behavioral change (Bass et al. 1972, Ginter 1974, Shet and Talarzyk 1972), marketing researchers recently have begun to investigate behavioral induction techniques that influence behavior directly (Tybout 1978).

The influence strategy receiving the greatest interest in marketing literature is labeled the 'foot-in-the-door' technique. It has been investigated by Freedman and Fraser (1966), who demonstrated that once a target person's compliance with a small demand is obtained, his or her willingness to perform a larger request - actually the one desired from the outset - increases. The authors assume that the effect is caused by a shift in the self-perception of the target person. After having agreed to perform the initial (small) favor, a person "may become, in his own eyes, the kind of person who does this sort of thing, who agrees to requests made by strangers, who takes action on things he believes in, who cooperates with good causes " (Freedman and Fraser 1966, p. 201). Thus, compliance is gained without pressure, because "change in attitude need not be toward any particular

person or activity but may be toward activity or compliance in general" (Freedman and Fraser 1966, p. 201).

Although the reported applications in a number of non-business and business contexts have proved successful, the 'foot' technique is not applicable to a communication setting of limited duration like the face-to-face interview, because its effectiveness seems to depend on a distance of time (a minimum of ~~two~~ days) between the first (minimal) and the second (larger) request, and on a change of the requesting person.

A second behavioral influence strategy, derived from the one described above, appears to be more adequate to face-to-face interviews, even though it involves exactly the opposite procedure to get a favour done. This strategy is labeled the 'door-in-the-face' technique. In this approach, the requestor begins with an extreme first demand (which is very likely refused) and then asks for a more moderate second favour (the one desired from the outset). The underlying idea is that a norm of reciprocation existing in all societies holds, "you should make concessions to those who make concessions to you" (Mowen and Cialdini 1980, p. 253-254). A target person who rejects the first extreme demand is inclined to interpret a subsequent smaller one, made by the same requestor, as a retreat from the latter's initial position. "To reciprocate this concession the target must move from his or her initial position of noncompliance with the large request to a position of compliance with the smaller request" (Mowen and Cialdini 1980, p. 254).

In order to minimize the high number of refusals threatening questions generate, an adaption of this rejection-then-moderation technique to the interview situation requires, at first glance, a rather counter-intuitive mode of procedure: Beginning with the more threatening (open-ended) question form at the risk of a high refusal rate opens up the chance of making a simulated retreat from our initial demand by proceeding with a subsequent less threatening question version. If our assumption is correct, that interviewees who refuse to answer the first income question will perceive a concession in our movement from the highly threatening to the more moderate (closed) version, we should obtain their agreement to respond to the second question.

Question design and method

Based on these reflections, we designed the following income question sequence (see App. A): We first asked an open-ended version that is used frequently in German survey research to gather data on the monthly net income of households. Respondents who refused to answer the first question were asked again about household income, but now in a closed version, which turned out to be less threatening in the rating procedure. In this 'smaller request' condition, the interviewers were instructed to hand over a list of 22 categories ranging from low (up to DM 400/month) to high (DM 15000 and more/month) income. They then asked for the category which included the monthly net income of the household.

Study I

We first implemented the above version of our income question sequence in a representative nationwide German survey of 2057 adults (more than 18 years of age) conducted by INFRATEST (a commercial opinion research institute) in October 1980. This survey dealt mainly with problems of employment and related topics. The question on the monthly net income of the household was therefore embedded in several other related questions, such as questions of source of income, additional income and just distributions of income.

Table 1

As Table 1 shows, a relatively high number of respondents (24.2%) refused to answer the open-ended (highly threatening) question form. When confronted with the less threatening (closed) version, 86.7% of the original refusers - i. e. 21% of the total sample - agreed to respond. Thus 96.8% of the total sample provided information about household net income.

Study II

In order to verify these results, the question sequence was tested again in another representative nationwide German survey (ZUMABUS 6) of 1993 adults under somewhat different conditions: The sample was not restricted

to German working population alone; the survey was concerned with a variety of topics such as environmental situation, work conditions, current problems of political and social life in Germany. The income question sequence was administered as part of a standard set of socio-demographic questions placed at the end of the questionnaire. Furthermore, we now asked the respondents for their own monthly net income, not that of the entire household. An informal filter for the interviewers was designed to exclude respondents with no personal income from further questioning. In this second study, 18.6% of the respondents refused to answer the open-ended question (see Table 1). Asked again in the less threatening version, 68.4% of this group - or 12.7% of the total sample - agreed to respond. Thus, in this study, 94.1% of the total sample (subjects with no personal income excluded) gave information about their monthly net income.

Although the 'door-in-the-face' technique as applied in the present studies proved highly successful, it is possible that the income question sequence might produce response effects such as underreporting or overreporting (Bradburn and Sudman 1979), because the questioning procedure is not identical for all respondents. Furthermore, numerous studies lead us to believe that the refusal of income questions is highly correlated with the social position, sex, and age of the respondents, no matter which question form or wording is used. As Krupp (1979) noted, "the higher the monthly income, the higher the probability of refusals to the income question" (our translation).

To determine whether this effect holds in our data, we compared those answering the open-ended version spontaneously to those who first refused to respond but then - in the second step - answered the closed version. Table 2 presents the results of this comparison.

Table 2

There are indeed significant differences between the two groups of respondents in regard to all three sociodemographic characteristics. As expected, people who respond to the 'door-in-the-face' technique here are not only slightly older but also have a higher status occupation and are more likely to be male. Finally, these respondents reported a significantly higher level of income than those who replied spontaneously to the open-ended version.

To determine whether these differences are produced by specific response effects (e. g. the open-ended version might produce underreporting of income) or, alternatively, result from the sociodemographic composition of the two groups, we used a Multiple Classification Analysis (MCA).

MCA calculates deviations from the overall mean for each category of the independent variables (simple Analysis of Variance). When control variables are introduced, the program calculates the 'adjusted' deviations by successively holding constant the distribution of the control variables for each category of each independent variable. When additional variables are introduced step-by-step, the reduction of the adjusted differences between the open and closed question version indicates how

much of the initial income difference was due to the differential composition of the two groups who responded to the open vs. closed version of the question sequence.

Figure 1

As Figure 1 shows, the initial income difference of DM 514 is reduced significantly at each step when occupation, sex, and age are introduced. In the end, a difference of only DM 218 persists, less than half of the initial gap and less than one step on the category list of the closed version of the income question. The reduction of the residual effect of the question version can also be documented with the decline of the (bivariate) eta of .17 to the multivariate beta of .07 when the three demographic variables are introduced. In other words, only two-fifths of the initial difference can still be attributed to question form, and it is quite likely that the addition of further control variables would reduce this question effect even more.

Thus, the initial refusers do not seem to be induced to overreporting when they report their income in the second step (closed version), but constitute a specific population characterized by a higher level of occupation, advanced age, and male sex, similar to other higher income respondents. There is a fair amount of evidence that many interviewees belonging to higher income groups are more likely to divulge personal financial data if compliance gaining tactics are introduced into the response process.

Summary and conclusions

Our primary goal in this paper has been to examine under which conditions personally threatening questions produce sufficient response rates. The income question served as an example to demonstrate that question form may strengthen the threatening impact of the question topic. An income question sequence was designed with regard to respondent self-perception in personally threatening situations. The compliance gaining mechanisms operating in the 'door-in-the-face' technique have proved highly successful: In the first (requesting monthly net income of the household) and in the second study (requesting personal monthly net income), the question sequence achieved final refusal rates of 3.2 respectively 5.9 percent. A comparison between respondents who answered spontaneously to the open-ended part of the question sequence and those people who initially refused, but answered in the second step showed significant differences between the two groups: The initial refusers were not only older but also had higher status occupations and were more likely to be male. Additionally, they reported a higher level of income. To test whether the question sequence might produce response effects, a Multiple Classification Analysis (MCA) was conducted. The results indicate that the effect of the question version declines significantly at each step when occupation, sex and age are introduced. Thus far, no dramatic response distortion (over-reporting/under-reporting) for the two types of questions is visible in our data.

In conclusion, a word of caution. Several areas remain to be explored in future research. First, the generality of the 'door-in-the-face' technique needs to be demonstrated across divergent question topics (e.g. vote participation, sexual behavior, drug use) which tend to be perceived as personally threatening by respondents.

A second question is whether the procedure requires that the initial 'door-in-the-face' question and the second 'compromise' question have to ask about the same topic. One could imagine, for example, that a sequence of questions with diverse topics and different threatening potentials will lead to similar low refusal rates on the second question following the compliance-gaining mechanisms as was the case in the second step of our income question sequence.

Finally, further research should focus upon interviewer behavior during the question procedure. Perhaps the effectiveness of our income question sequence is strengthened by the interviewers strain in the special situation: respondents who refused to answer in the first step might perceive that the interviewer dislikes their reaction. In order to avoid disappointing him or her again, they agree to divulge information in the second step.

Would you please tell me how much is your total household net income, I mean the amount that is left over taxes, social security, and medical insurance?

DM _____

refused 99997

Interviewer: In case of refusal, hand flashcard and ask for the letter on the card which best represents the total family net income

letter: _____

refused 97

Categories on the flashcard:

B	bis	unter	400 DM
T	400	bis unter	600 DM
P	600	bis unter	800 DM
F	800	bis unter	1.000 DM
E	1.000	bis unter	1.250 DM
H	1.250	bis unter	1.500 DM
L	1.500	bis unter	1.750 DM
N	1.750	bis unter	2.000 DM
R	2.000	bis unter	2.250 DM
M	2.250	bis unter	2.500 DM
S	2.500	bis unter	2.750 DM
K	2.750	bis unter	3.000 DM
O	3.000	bis unter	3.500 DM
C	3.500	bis unter	4.000 DM
G	4.000	bis unter	4.500 DM
U	4.500	bis unter	5.000 DM
J	5.000	bis unter	5.500 DM
V	5.500	bis unter	6.000 DM
Q	6.000	bis unter	8.000 DM
A	8.000	bis unter	10.000 DM
D	10.000	bis unter	15.000 DM
W	15.000 DM	und mehr	

Source: INFRATEST Survey 6244
October 1980

Table 1 Refusal Rate of Income Question Sequence in Study I and Study II

	Study I (Sample of employed persons) monthly net income of house- hold N = 2057	Study II (general population, excluding respondents without own income personal monthly net income N = 1618
<u>Refusal Rate</u> to open-ended question form	24.2 % (N=497)	18.6 % (N=302)
<u>Response Rate</u> to closed question form among initial refusals	86.7 % (of 497)	68.4 % (of 302)
<hr/>		
Overall Response Rate (both questions, total sample)	96.8 %	94.1 %

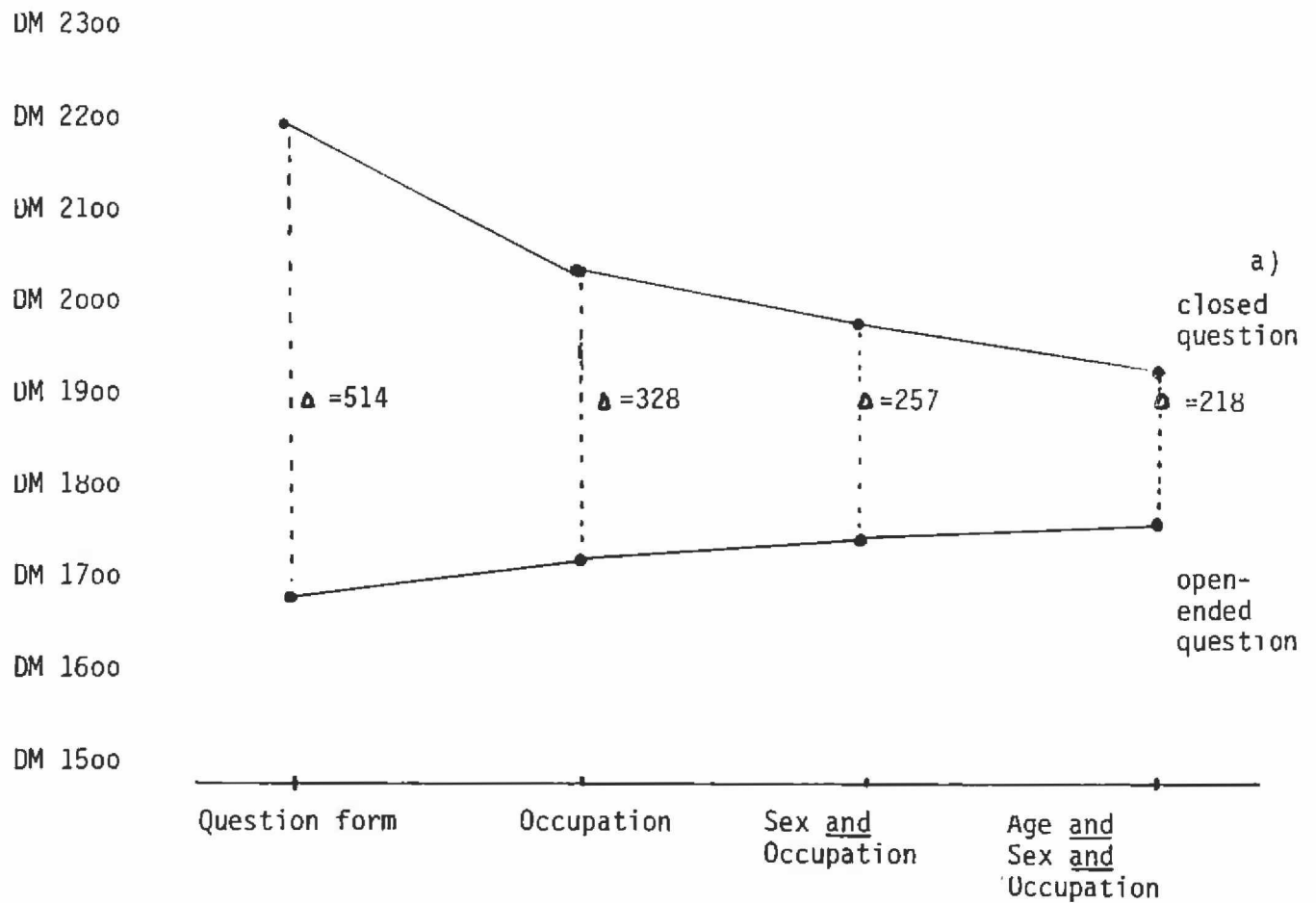
Table 2 Sociodemographic characteristics of respondents to different question versions

Study II General population, excluding respondents without own income

	Total Sample	Responded to open-ended question	Responded only to closed question
<u>Occupational Status</u>			
Self-employed	5.0 % (76)	71.1 %	28.9 % = 100 %
Higher level employees	25.0 % (380)	81.1 %	18.9 % = 100 %
Lower level employees/skilled and unskilled workers	28.8 % (438)	92.2 %	7.8 % = 100 %
Retired	25.2 % (384)	86.5 %	13.5 % = 100 %
Students/in military service (drafted)	16.0 % (244)	90.2 %	9.8 % = 100 %
	100.0 % (1522)	$\chi^2(4) = 40.7, p < .001$	
<u>Sex</u>			
male	56.4 % (859)	84.2 %	15.8 % = 100 %
female	43.6 % (663)	89.7 %	10.3 % = 100 %
	100.0 % (1522)	$\chi^2(1) = 10.0, p < .003$	
<u>Mean age</u>			
	47 (1522)	47 (1318)	51 (204)
		$t(287) = 3.0, p < .004$	
<u>Mean income</u> a)			
DM/month	1748 (1522)	1680 (1318)	2193 (204)
		$t(254) = 6.1, p < .001$	

a) For the calculation of the means in the closed version each category was replaced by an actual DM amount. The values were taken from the means of the open ended responses which fell into the respective category range

Figure 1 Reducing income differences between question versions:
the effect of sociodemographic characteristics



Grand mean: DM 1748.00

a) The means are the raw and the adjusted means as described in the text
see Footnote Table 2

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